WHAT IS CLAIMED IS:

1. A thin-film magnetic head comprising:

a medium facing surface that faces toward a recording medium;

a reproducing head incorporating: a magnetoresistive element; a first shield layer and a second shield layer for shielding the magnetoresistive element, the shield layers having portions located on a side of the medium facing surface and opposed to each other, the magnetoresistive element being placed between these portions of the shield layers; a first shield gap film, provided between the magnetoresistive element and the first shield layer, for insulating the magnetoresistive element and the first shield layer from each other; and a second shield gap film, provided between the magnetoresistive element and the second shield layer, for insulating the magnetoresistive element and the second shield layer from each other;

a recording head incorporating: a first magnetic layer including a pole portion and a second magnetic layer including a pole portion, the first and second magnetic layers being magnetically coupled to each other, the pole portions being opposed to each other and placed in regions of the magnetic layers on a side of the medium facing surface, each of the magnetic layers including at least one layer; a gap layer provided between the pole portions of the first and second magnetic layers; and a thin-film coil at least a part of which is placed between the first and second magnetic layers, the at least part of the coil being insulated from the first and second magnetic layers; and

an isolation film for magnetically isolating the reproducing head and the recording head from each other; wherein

the isolation film is made of a plurality of insulating films stacked that are formed by chemical vapor deposition.

2. The thin-film magnetic head according to claim 1, wherein the insulating films formed by the chemical vapor deposition are alumina films.

3. A thin-film magnetic head comprising:

a medium facing surface that faces toward a recording medium; a first magnetic layer including a pole portion and a second magnetic layer including a pole portion, the first and second magnetic layers being magnetically coupled to each other, the pole portions being opposed to each other and placed in regions of the magnetic layers on a side of the medium facing surface, each of the magnetic layers including at least one layer; a gap layer provided between the pole portions of the first and second magnetic layers; a thin-film

coil at least a part of which is placed between the first and second magnetic layers, the at least part of the coil being insulated from the first and second magnetic layers; and a coil insulating layer for insulating neighboring ones of turns of the coil from each other; wherein

the coil insulating layer is made of a plurality of insulating films stacked that are formed by chemical vapor deposition.

4. The thin-film magnetic head according to claim 3, wherein the insulating films formed by the chemical vapor deposition are alumina films.